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|  | | <h1 style="text-align: center;">AWARD/ MODIFICATION</h1> | | 3a. AWARDING OFFICE: Office of Naval Research 875 N. Randolph Street, Suite 1425 Arlington, VA 22203-1995 | |
| | | | | 3b. CFDA: 12.300 | |
| 1. INSTRUMENT TYPE: Grant Award | | 3c. DUNS NUMBER: 052184116 | | | |
| 2. AUTHORITY: 10 USC 2358 and 31 USC 6304, as amended | | 6. MODIFICATION TYPE: RD | | 7. PR NO.: 4720002344 | |
| 4. AWARD NO.: N00014-16-1-2906 | | 5. MODIFICATION NO.: A00002 | | 12. PROGRAM TYPE: DURIP | |
| 8. ACTIVITY/AGENCY PROPOSAL NO.: GRANT12000037 | | 9. RECIPIENT PROPOSAL NO.: | | 11. ACTIVITY TYPE: R&D | |
| 10. PROPOSAL DATE: 09/25/2015 | | | | | |
| 13. ISSUED TO 13a. ADDRESS: CARNEGIE MELLON UNIVERSITY 5000 FORBES AVE PITTSBURGH PA 15213-3815 UNITED STATES OF AMERICA | | 13b. CAGE: 97668 | | 13c. ED/EFT NUMBER: N/A | |
| 13d. BUSINESS OFFICE CONTACT: JUDITH COYLE | | 14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as Block # 13 | | | |
| 13e. TELEPHONE NUMBER: 412-268-5571 | | | | | |
| 15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Energy Efficient Computational Illumination and Imaging | | | | | |
| 16. FUNDING | | ACTIVITY/AGENCY SHARE | | RECIPIENT SHARE | |
| PREVIOUSLY OBLIGATED: | | | | \$219,581.00 | |
| OBLIGATED BY THIS ACTION: | | | | (\$139.04) | |
| TOTAL OBLIGATED ON AWARD: | | | | \$219,441.96 | |
| FUTURE FUNDING: | | | | \$0.00 | |
| GRANT TOTAL: | | | | \$219,441.96 | |
| 17. CURRENT FUNDING PERIOD N/A THROUGH N/A | | | | | |
| 18. PERIOD OF PERFORMANCE 08/01/2016 THROUGH 07/31/2018 | | | | | |
| 19. ACCOUNTING AND APPROPRIATION DATA: See Attached Financial Accounting Data Sheet(s) | | | | | |
| 20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: Prof. Srinivasa Narasimhan | | 21. TECHNICAL REPRESENTATIVE 21a. NAME: BEHZAD KAMGARPARSI | | 21b. CODE: 311 | |
| | | 21c. ADDRESS: MATH COMPUTERS & INFO RESEARCH DIV 875 N. Randolph Street Arlington VA 22203-1995 | | | |
| 20b. TELEPHONE NUMBER: 412-268-11199 | | 20c. EMAIL ADDRESS: srinivas@cs.cmu.edu | | 21d. TELEPHONE NUMBER: 703-696-5754 | |
| | | | | 21e. EMAIL ADDRESS: BEHZAD.KAMGARPARSI@NAVY.MIL | |
| 22. POC FOR THIS ACTION 22a. NAME: Yolanda E Willett | | 22b. CODE: | | 23a. ADMINISTRATIVE OFFICE: ONR REG Office Chicago Telephone: (312) 886-5423 Email: ONR_Chicago@navy.mil 230 South Dearborn CHICAGO IL 60604-1595 | |
| 22c. ADDRESS: Office of Naval Research 230 South Dearborn Room 380 Chicago IL 60604-1595 | | | | 23b. CODE: N62880 | |
| 22d. TELEPHONE NUMBER: 312-866-2404 | | 22e. EMAIL ADDRESS: YOLANDA.WILLIAMS@NAVY.MIL | | | |
| 24. SUBMIT PAYMENT REQUEST TO: Same as block 23a | | 25a. PAYING OFFICE DFAS-CO/NORTH ENTITLEMENT OPERATIONS HQ0337 PO Box 182266 COLUMBUS OH 43128 | | 25b. CODE: HQ0337 | |
| | | | | 26a. PATENT OFFICE: Office of Naval Research ATTN: ONR Office of Counsel Intellectual Property Section One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995 | |
| | | | | 26b. CODE: N00014 | |

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| AWARD NO. N00014-16-1-2906 | | AWARD/MODIFICATION | | MODIFICATION NO. A00002 | | |
| 27. SPECIAL INSTRUCTIONS: See Special Requirements on Page 5 | | | | | | |
| 28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx | | | | | | |
| This award provides full delegation to the administrative office in Block 23 of the grant. Full delegation includes the functions described in the DoDGARs at 32 CFR 22.715 and the administrative grants officer functions related to payments described in 32 CFR 22.810. | | | | | | |
| 29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL. | | | | | | |
| DOCUMENT | | URL | | | | |
| <p>The following documents may be found at :</p> <p>http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</p> <p>DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (OCT 2015)</p> <p>UAWA AWARD A (NOV 2003)</p> <p>STANDARD TERMS/CONDITIONS FOR RESEARCH GRANTS (AGENCY SPECIFIC) (FEB 2015)</p> <p>SPECIAL TERMS AND CONDITIONS (DURIP REPORTS ARTICLE APRIL 2018)</p> | | | | | | |
| 30. OPTIONS | OPTION NO. | AMOUNT | | PERIOD | | |
| (1) | | | | | | |
| (2) | | | | | | |
| (3) | | | | | | |
| (4) | | | | | | |
| 31. REPORTS: The reporting requirements under this award are specified in the articles of part 5 (Financial, Programmatic, and Property Reporting) to the General Terms and Conditions and in any additional language for Part 5 in an ONR Addendum to the General Terms and Conditions specified in Block 29. | | | | | | |
| 32. FOR THE RECIPIENT | | | | 33. FOR THE UNITED STATES OF AMERICA | | |
| 32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN | | | | 33a. SIGNATURE OF AWARDOFFICER | | |
| | | | | Digitally signed by YOLANDA WILLETT 1230349440 Dated: 2019.01.30 14:17:13 EST | | |
| 32b. NAME AND TITLE OF SIGNER | | 32c. DATE SIGNED | | 33b. NAME AND TITLE OF AWARD OFFICER | | 33c. DATE SIGNED |
| | | | | YOLANDA WILLETT | | 01/30/2019 |

FINANCIAL ACCOUNTING DATA SHEET - NAVY

| | | | | | | | | | | | | | | | | | |
|---|--------------------------|-----------------------------------|-----------------------------|------------------|------------|---|----------|-------------------------|----------------------------|-----------|--------------|-----|--------------------------------|------------|--|---------------|--|
| 1. CONTRACT NUMBER (CRITICAL) N00014-16-1-2906 | | | 2. SPIIN (CRITICAL) | | | 3. MOD (CRITICAL) A00002 | | | 4. PR NUMBER 4720002344 | | | | | | | | |
| CLIN/SLIN | 6. LINE OF ACCOUNTING | | | | | | | | | | | | 7. AMOUNT (CRITICAL) | | NAVY INTERNAL USE ONLY REF DOC/ACRN | | |
| | A. ACRN (CRITICAL) | B. APPROPRIATION (CRITICAL) | C. SUBHEAD (CRITICAL) | D. OBJ CLA | E. PARM | F. RFM | G. SA | H. AAA (CRITICAL) | I. IT | J. PAA | K. COST CODE | | | | | | |
| | | | | | | | | | | | PROJ UNIT | MCC | | | | PDLI & SUF | |
| | AA | 1761319 | W1HZ | 410 | 00 | 014 | 0 | 050120 | 2D | 000000 | 0C0018 | 263 | 873 | (\$139.04) | | | |
| PAGE TOTAL | | | | | | | | | | | | | | (\$139.04) | | | |
| GRAND TOTAL | | | | | | | | | | | | | | (\$139.04) | | | |
| PREPARED/AUTHORIZED BY: | | | | | | COMPTROLLER APPROVAL: | | | | | | | | | | | |
| DATE: | | | | | | FOR FISCAL DATA AND SIGNATURE | | | | | | | | | | | |
| | | | | | | BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED | | | | | | | | | | | |
| DATE: | | | | | | DATE: | | | | | | | | | | | |

ONR AWARD FORM (10/99) - version 1.1

FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

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|---|--------------------------|-------------------------------|--|--|--|--------------------------------|--|---|
| 1. CONTRACT NUMBER (CRITICAL) N00014-16-1-2906 | | 2. SPIIN (CRITICAL) | | 3. MOD (CRITICAL) A00002 | | 4. PR NUMBER 4720002344 | | |
| 5. CLIN/SLIN | 6. ACRN (CRITICAL) | 7. ACCOUNTING CITATION | | | | 8. AMOUNT (CRITICAL) | | NAVY INTERNAL USE ONLY REF DOC/ACRN |
| | | | | | | | | |
| | | | | | | PAGE TOTAL | | |
| | | | | | | GRAND TOTAL | | |
| PREPARED/AUTHORIZED BY: | | | | COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE | | | | |
| DATE: | | | | BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED | | | | |
| | | | | DATE: | | | | |

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| AWARD NO. N00014-16-1-2906 | SPECIAL REQUIREMENTS | MODIFICATION NO. A00002 | |
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The purpose of this modification is to deobligate funds in the amount of \$139.04. All other terms and conditions remain unchanged.